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APPLICATION NO.	NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/695,067 10/25/2000		Tadashi Emori	071671/0156	1683	
22428 75	590 02/25/2004		EXAMINER		
FOLEY AND LARDNER			OPSASNICK, MICHAEL N		
SUITE 500 3000 K STREE	TNW	,	ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20007			2655	7	
			DATE MAILED: 02/25/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Amaliaa	tion No.	Applicant(s)				
Office Action Summary		Applica	tion No.					
		09/695,	067	EMORI ET AL.				
		Examin	er	Art Unit				
			N. Opsasnick	2655				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE N - Exter after - If the - If NO - Failui	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUNI nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st re to reply within the set or extended period for reply eply received by the Office later than three months a d patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In nonunication. O) days, a reply within the satutory period will apply and a will by statute, cause the a	event, however, may a reply be tatutory minimum of thirty (30) o will expire SIX (6) MONTHS fro polication to become ABANDO	timely filed days will be considered time om the mailing date of this of NED (35 U.S.C. § 133).	ely. communication.			
1)⊠	Responsive to communication(s) file	ed on <u>25 October 20</u>	<u>000</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	4) Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-31 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Applicati	on Papers							
10)	The specification is objected to by the drawing(s) filed on is/are Applicant may not request that any objected the oath or declaration is objected the specific process.	: a) accepted or action to the drawing(so the correction is required.) be held in abeyance. Suired if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 C				
Priority (under 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 								
Attachmen			[]	(DTO 440) December	2(0)			
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (mation Disclosure Statement(s) (PTO-1449)		4) Interview Summ 5) Notice of Inform 6) Other:	ary (PTO-413) Paper No al Patent Application (P	л(э) ГО-152)			

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DETAILED ACTION

IDS

1. The ids received on 10/16/2001 is not present in the case and cannot be located. Examiner requests a resubmittal of this ids.

Specification

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

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Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Goldberg et al (5625747).

As per claims 5,1,2,8-10,13,16-18,21, and 24, Goldberg et al (5625747) teaches a method, apparatus, and recording medium pertaining to a learning voice memory with learning voice data stored therein (as memory containing the learned voice data (fig. 6, subblock 230); an analyzer to convert the voice signals to cepstral signals (as calculating the cepstrum parameters of the reference utterance (col. 3 lines 52-60); a reference pattern memory storing reference patterns (col. 7 lines 20-50); elongation/contraction estimating unit for outputting the parameter on the frequency axis by using input patterns (as stretching and compressing the parameter -- col. 4 lines 15-53; also refer to col. 2 lines 53-60); a converter for conversion of the pattern (col. 6 lines 1-7); a reference pattern estimating unit for updating the learned patterns from information gathered by the converter and reference patterns (as comparing the warping and updating the reference patterns – col. 7 lines 20-30); and a likelihood judging unit for checking

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distance changes by computing distances between the changed input pattern and the reference patterns (as calculating the euclidean distance to find the DTFW -- col. 5 lines 7-42, Fig. 4).

In addition to the rejection based above as applied to claims 8 and 16; as per claims 8,16, Goldberg et al (5625747) also teaches outputting time domain based results (fig. 6, subblocks 250,251) and figs. 2 and 3.

As per claims 3,6,11,14,19,22,25, and 29 Goldberg et al (5625747) teaches the method and apparatus of execution of elongation or contraction of spectrum on the frequency axis with a warping function in cepstral space (as DTFW of the test features, col. 4 lines 34-40; wherein the features are cepstral coefficients (col. 4 lines 54-55);

As per claims 4,7,12,15,20,23,26-28,30,31, Goldberg et al (5625747) teaches the method and apparatus of execution of elongation or contraction of spectrum on the frequency axis with a best likelihood estimation of HMM in cepstral space (as using HMM with dynamic time warping -- col. 2 lines 37-43).

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's 6. disclosure. Please see related art listed on the PTO-892 form.

Any response to this action should be mailed to: 7.

Commissioner of Patents and Trademarks Washington, D.C. 20231

or faxed to:

(703) 872 9314,

(for informal or draft communications, please label "PROPOSED" or "DRAFT") Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Opsasnick, telephone number (703)305-4089, who is available Tuesday-Thursday, 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Doris To, can be reached at (703)305-4827. The facsimile phone number for this group is (703)872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group 2600 receptionist whose telephone number is (703) 305-4750, the 2600 Customer Service telephone number is (703) 306-0377.

mno 2/23/04

> VIJAY CHAWAN PRIMARY EXAMINER